

Date: Fri, 28 Oct 94 04:30:21 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: List  
Subject: Ham-Ant Digest V94 #358  
To: Ham-Ant

Ham-Ant Digest                      Fri, 28 Oct 94                      Volume 94 : Issue    358

Today's Topics:

### Advice needed for loss in BNC<->S0-239 connector  
   AP8  
                                 Best wire for dipoles? (2 msgs)  
                 Copper J-Pole measurements (2 msgs)  
                                 How's the Wire ... Man?  
Looking for comments on helically wound HF antennas  
                                 Needed: J-pole measurements  
                                 PCB antennas  
                                 Want to put up half of a TH6DXX  
                                 what IS a bevrage antenna? (2 msgs)

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Thu, 27 Oct 1994 22:12:28 GMT  
From: mack@ncifcrf.gov (Joe Mack)  
Subject: ### Advice needed for loss in BNC<->S0-239 connector

In article <3864u4\$6ae@nova.np.ac.sg> s2202629@np.ac.sg (Teh Aik Wen) writes:  
>I'm at present trying to homebrew an antenna. It's the first time I'm doing  
>it, and parts aren't exactly the easiest for me to find, especially since  
>I'm not very sure what I'm looking for. (Yes, I'm very new, and I don't have  
>a xceiver or anything for that matter).  
>  
>Whats the antenna for? Thats a different story altogether.  
>  
>Anyway, I've been trying to make this antenna featured in Sept'94 CQ.

>(Anyone else doing it/has done it, care to email me?). I didn't read it  
>carefully enough, and bought a BNC connector instead of a S0-239 for the  
>antenna. Not difficult I thought, just go look for a 'single-hole,  
>rear-mount S0-239 socket'. But I didn't seem very successful in finding it.  
>  
>What I did find however was a connector that was a BNC to S0-239.  
>  
>I was wondering, how much 'losses' would I face if I went ahead and used the  
>BNC, followed by this connector? Reason why I want to do this is because I'm  
>having difficulty in finding the S0-239 (single hole, rear mount).  
>  
>Just a note, the 'other side' of the S0-239 socket was supposed to be a  
>length of RG-58/U that is some 2" and then connected directly to the twin  
>lead (that makes up the antenna).  
>  
>Thanks.  
>  
The problem is not of losses but mechanical. I don't know what your antenna  
is, but if you can do it, then you've done it. Joe NA3T, have fun  
welcome to hamming

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Date: 28 Oct 94 02:09:40 GMT  
From: w5robert@blkbox.COM (Robert Wood)  
Subject: AP8

Any reason on the AP8 10mhz adjustment being shorter for  
the CW setting than the phone setting??? Is this a misprint??

--  
73  
Robert Wood  
WB5CRG w5robert@blkbox.com

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Date: 27 Oct 1994 07:11:05 -0400  
From: jimn0oct@aol.com (JimN0OCT)  
Subject: Best wire for dipoles?

In article <19940ct24.120528.101@lmpsbbs.comm.mot.com>,  
burke\_br@adcae1.comm.mot.com (Bruce Burke) writes:

Well, let' see.....

Stranded vs. solid: solid will stretch more. If not using an antenna  
tuner, this could be a problem, as your resonant frequency will decrease  
as the wire stretches.

Insulated vs. non: Insulated protects the outer layer of copper (which the RF uses) from corrosion. It's also my opinion that insulation changes the specific impedance of the wire, changing the 468/MHz equation somewhat.

Never used copperweld, have heard good and bad things. Real bear to solder and bend.

Good luck!

73, jim

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Date: 27 Oct 1994 13:40:06 -0700  
From: rdcole@crl.com (Ron Cole)  
Subject: Best wire for dipoles?

Mike Staples (fa419@cleveland.Freenet.Edu) wrote:

: For 1/2 wavelength wire dipoles in the 10 - 80 meter range, whats the best  
: type of wire to use? Solid? Stranded? Insulated? Non-insulated? Also, what's  
: "Copperweld" and what does "hard drawn" mean?

I would use the Copperweld because of the strength of the steel core.  
There is a stranded antenna wire being sold that looks good to.  
It featuers a large strand count thst is woven in a roap like  
manner, it strong and flexiable, expensive somthing like 20 to 40 cents  
per foot. I first saw this wire used as trailing wires for HF radios on  
Aircraft. Check for the Ad's in 73 and QST.

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Ron Cole                                    Internet:rdcole@crl.com            ICBM:29 31.03 N  
N5HYH                                    CIS:70325,102                            98 25.55 W  
CE KZEP/KHBL                            AX25:N5HYH @ K3WGF.STX.NA  
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Date: 27 Oct 1994 23:47:14 GMT  
From: Luke Hamaty <70324.1010@CompuServe.COM>  
Subject: Copper J-Pole measurements

I just built a J-pole recently using 3/4" pipe (thin wall) for the  
main radiator and 1/2" for the stub. The radiator pipe (!) is  
58-1/2" and the stub is 19-1/2". The connector pipe is 1-1/2".  
These are the lengths of just the pipes, NOT counting connectors.

Use a 3/4-1/2-3/4 tee. I solder all tee connections, and put caps on the open pipe ends w/o solder. A spacer to keep the stub and radiator helps, too. Connect the center of the feedline to the long element 2-1/2" up from the bottom of the inside of the J, and the feedline shield across from that. You don't need a balun unless you are a purist. You can loop the coax if it makes you feel better. Use another piece of 3/4 pipe in the bottom of the tee for mounting.

The dimensions are from an article in one of the digests a year or so back. They were for 3/4 pipe, but worked perfectly as I describe above.

Hope that helps! 73 de KQ40Q

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 Date: Thu, 27 Oct 1994 21:16:49 GMT  
 From: roberson@HDFS3.UCSD.EDU ( Brad Roberson )  
 Subject: Copper J-Pole measurements

PLEASE, I beg of you, DO NOT SEND INFO ON TWIN-LEAD J-POLES. While I appreciate the mail and suggestions that is not what I want to build. I am looking along with another individual now who has seen my posts, for the following:

1. J-Pole antenna project
  - a. must be constructed from 1/2" copper water pipe
  - b. must contain formulas for measurements
    1. length of 1/4 wave stub
    2. length of 3/4 wave stub
    3. spacing between stubs
    4. coax placement

Please, Please, PLEASE, I don't want numbers, but FORMULAS.

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*-----*	Applied Computing Devices, Inc.	_**_
RESCUE  _*_	BRAD A. ROERSON	IIIIIIIII- _---\
95  ---\	roberson@acd4.acd.com	/-----  91  <
=(0)------(0)-'	Honey Creek Volunteer Fire Department	+- (0)----- (0) -+

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 Date: Thu, 27 Oct 1994 20:19:42 GMT  
 From: gdo@aloft.att.com (Glenn D. O'Donnell)

Subject: How's the Wire ... Man?

Hi everyone,

Our local club is looking to buy mass quantities of coax so our members can take advantage of the bulk rate. We're looking at various varieties of cable and we all feel warm & fuzzy about Belden.

One of our members got a copy of "The Wirebook" from "The Wireman". The book is a fantastic collection of information about transmission lines and such. It is also, of course, the catalog for "The Wireman". Their cable looks almost too good to be true! Therein lies my skepticism.

Is their cable REALLY that good? Who makes it? I find it hard to believe that they would make it themselves. The overhead for such an operation must be huge.

Please respond via email since I usually don't get a chance to read the newsgroups. I will summarize my findings on these newsgroups.

adTHANKSvance and 73

de Glenn O'Donnell, N3BDA

gdo@aloft.att.com

--

Glenn D. O'Donnell, N3BDA

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Date: 27 Oct 1994 00:08:26 +0200

From: stickler@cc.Helsinki.FI (Patric M Stickler)

Subject: Looking for comments on helically wound HF antennas

I am looking for the most effective antenna to install in the attic of an apartment building, or rather in an attic-like access space, where the maximum working area is around 6' by 4' and 2.5' high. I have been considering some sort of helically wound antenna (or slinky-type) for 40m, but would like some comments on expected efficiency, etc. as opposed to some other scheme (IsoLoop-type).

Any suggestions/comments will be greatly appreciated.

Patrick Stickler

OH2LUV, KC4YYY

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Date: Wed, 26 Oct 1994 20:53:53 GMT

From: roberson@HDFS3.UCSD.EDU ( Brad Roberson )

Subject: Needed: J-pole measurements

Thanks to all of those who replied to my post regarding J-pole information, but everyone has missed what I was truly looking for. What I had was an article from a magazine produced by Wayne Green (can't remember the name) but the article actually had the measurement, i.e. the distance of spacing between the legs, the lengths of the elements, and the placement of the coax. All of these are approximations but they are a good start. These four formulas are what I am looking for. If anyone has this article (published approx. 2 1/2 years ago) or another similar one with formulas. Thanks

N9NDS

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*-----*           Applied Computing Devices, Inc.           _**_
| RESCUE  |_*_           BRAD A. ROERSON           IIIIIIIII-|____\
|  95    |---\_         roberson@acd4.acd.com       /-----| 91  |<
=(0)------(0)-' Honey Creek Volunteer Fire Department  +-(0)------(0)-+
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Date: Wed, 26 Oct 1994 20:25:51 GMT  
From: zlau@arrl.org (Zack Lau (KH6CP))  
Subject: PCB antennas

Alan Denby (alden@ozemail.com.au) wrote:  
: Hi there HAMS etc,

: Does anyone have any information or a reference on methods of building  
: VHF and UHF antennas on circuit board material. I want to use  
: photographic techniques to etch the boards, preferably on standard  
: fibreglass boards. Do I need to use teflon? I'm not trying to build  
: microstrip circuits or filters just antennas. Directional beams and  
: co-linears and phased arrays are what I had in mind.

People have made dish feeds using G-10/FR-4 board. The biggest complaint is the low power handling capability--25 watts or so and you fry your dish feed. Teflon doesn't have the mechanical rigidity of fiberglass.

--  
Zack Lau KH6CP/1 2 way QRP WAS  
8 States on 10 GHz  
Internet: zlau@arrl.org 10 grids on 2304 MHz

-----  
Date: 27 Oct 94 19:59:22 GMT  
From: henniger@cisco.com (Mickey Henniger)  
Subject: Want to put up half of a TH6DXX

Hi!

I live in town, and have a regular lot, neighbors, and a TH6DXX.

The TH6DXX barely stays within the property lines with its 22 ft boom and 33 ft width. Not wanting to get roasted by the neighbors, I had the idea of using only half of the antenna:

The elements are:

```
Reflector 20/15      -----
                      |
Reflector 10         -----
                      |
Driven Ele 20/15/10  -----
                      |
        [I want to cut here-----> |
Director            -----
                      |
Director            -----
                      |
Director            -----
```

Can anyone think of problems with dropping the directors?

I put this half-tenna in the air about 15 feet and the SWR is fine on 10 and 15 meters, but is significantly off on 20 meters, actually resonating at about 13.7 mhz.

How will the gain be expected to change?

Will it have any resonable gain over a dipole?

Any experiences? opinions?

Mick  
(ac6eu)

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Date: 26 Oct 1994 19:39:00 -0400

From: c002@ns3.CC.Lehigh.EDU (David M. Roseman)

Subject: what IS a bevrage antenna?

>  
>Well, years ago the Atlanta (Georgia) ARC had their own beverage (sic)  
>antenna for Field Day made out of beer cans soldered together. Worked  
>great on 40m as I recall. Operating ability went down as the vertical  
>went up though :-)  
>

oh hahaha, very funny! :)

nice one tho..

DAvid

David Roseman	c002@lehigh.edu
SysOp of NODE 3 BBS	The Flying HAm - BBS
Running OBV/2 Software	KBR-9318 - CB
	N3SQE/SVARC - Ham
HAmmy in IRC	N3SQE@N3IQD.FN20GO.PA.USA.NA - Packet

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Date: 26 Oct 1994 20:21:00 GMT  
From: domonkos@access4.digex.net (Andy Domonkos)  
Subject: what IS a bevrage antenna?

David M. Roseman (c002@ns3.CC.Lehigh.EDU) wrote:  
: what IS a beverage antenna anyway? and what is it comprized of? LEDs?!

: thanks

: David

David Roseman	c002@lehigh.edu
SysOp of NODE 3 BBS	The Flying HAm - BBS
Running OBV/2 Software	KBR-9318 - CB
	N3SQE/SVARC - Ham
HAmmy in IRC	N3SQE@N3IQD.FN20GO.PA.USA.NA - Packet

....I know it has nothing to do with coffee... :-)



Andy N3LCW

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Date: Thu, 27 Oct 1994 17:02:18 -0400  
From: frederick.mckenzie-1@pp.ksc.nasa.gov (Fred McKenzie)

References<R691SQJ.darrylb@delphi.com> <freyderCyA455.6Lz@netcom.com>,  
<CyAB8H.3nt@pica.army.mil>  
Subject: Re: RS Speaker Mics [WAS Re: Radio Shack Antennas?]

In article <CyAB8H.3nt@pica.army.mil>, mellis@ramcad.pica.army.mil (Mark Ellis) wrote:

> FYI, that's all. I'm looking for a used Icom or whatever fits the  
> HTX-202 plug, but I keep missing hamfests.

Mark-

For your info, the Icom speaker-mike may not key the HTX-202 unless you change a resistor inside. The Radio Shack unit uses about 2200 Ohms, while the Icom unit uses something around 10K to 50K Ohms for the P-T-T function. As a result, the Radio Shack unit will work with Icom, but not vice-versa.

The Radio Shack unit reportedly works with Yaesu. It's possible that a Yaesu unit will work with the HTX-202.

I never noticed the cheap construction with my R/S speaker-mike. Mine works quite well, and is probably a little better on the IC-2AT, than the Icom unit, because of having a slightly larger speaker.

73, Fred, K4DII

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End of Ham-Ant Digest V94 #358  
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